No.



8400044

THE UNITED SHAVES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS: SHALL COME;

RIJK ZWAAN Zaadteelt en Zaadhandel, B.V. Whereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

CAULIFLOWER

'Triton'

In Lestimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 28th day of June in the year of our Lord one thousand nine hundred and eighty-five.

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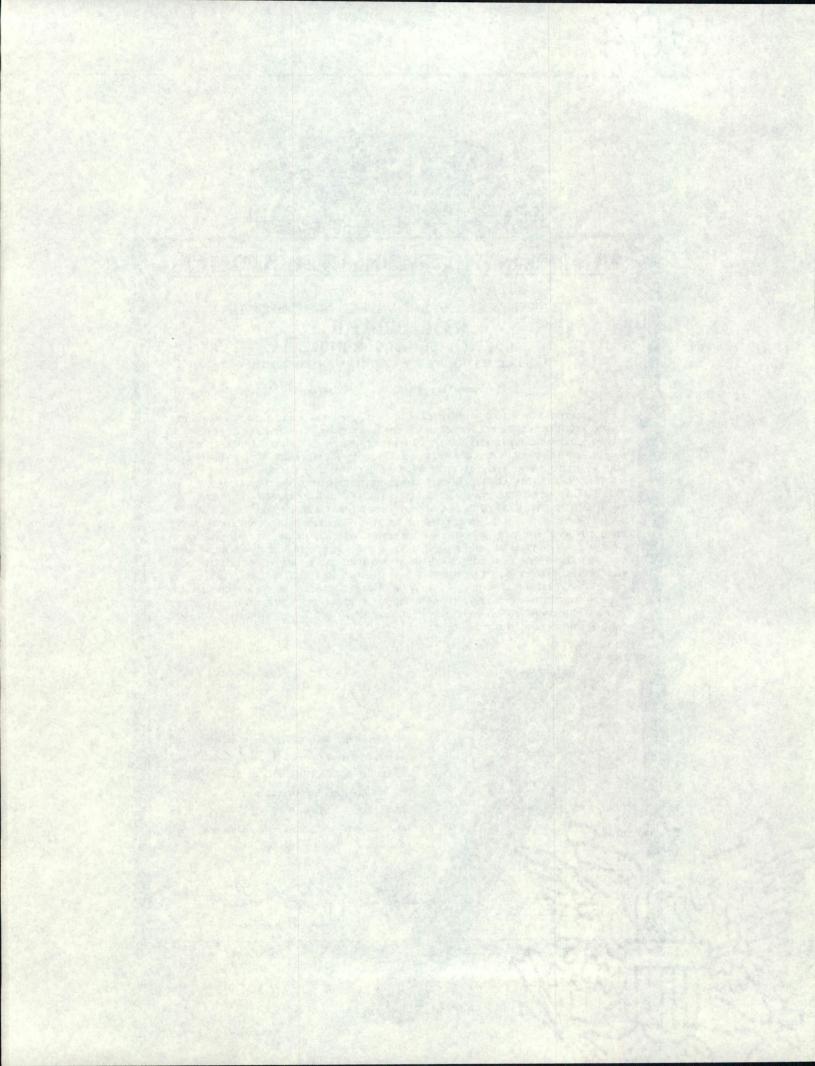
John R Block Secretary of Agriculture

Attest

Connell Hara Commissioner

Plant Variety Protection Office Agricultural Marketing Service

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APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions on reverse) 1. NAME OF APPLICANT(S) Rijk Zwaan Zaadteelt en Zaadhandel 4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 40 2678 ZG De Lier, The Netherlands 7. FAMILY NAME (Botanical)	ORM APPROVED: OMB NO. 0581-0005 o certificate for plant variety protection ay be issued unless a completed appliation form has been received (5 U.S.C. 53). VARIETY NAME TRITON FOR OFFICIAL USE ONLY VPO NUMBER 8400044	
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions on reverse) 1. NAME OF APPLICANT(S) Rijk Zwaan Zaadteelt en Zaadhandel Type 625 RZ 4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 40 2678 ZG De Lier, The Netherlands 7. FAMILY NAME (Botanical)	ay be issued unless a completed appliation form has been received (5 U.S.C. 53). VARIETY NAME TRITON FOR OFFICIAL USE ONLY VPO NUMBER	
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Rijk Zwaan Zaadteelt en Zaadhandel Type 625 RZ 4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 40 2678 ZG De Lier, The Netherlands 01745 - 3941 6. GENUS AND SPECIES NAME 7. FAMILY NAME (Botanical)	TRITON FOR OFFICIAL USE ONLY VPO NUMBER	
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P.O. Box 40 2678 ZG De Lier, The Netherlands 01745 - 3941 6. GENUS AND SPECIES NAME 7. FAMILY NAME (Botanical)	VPO NUMBER	
2678 ZG De Lier, The Netherlands 01745 - 3941 6. GENUS AND SPECIES NAME 7. FAMILY NAME (Botanical)		
6. GENUS AND SPECIES NAME 7. FAMILY NAME (Botanical)	8400044	
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Brassica Oleracea L.	DATE	
va. botrytis Crucifaer	2/3/84 TIME 2:30 A.M. XP.M.	
8. KIND NAME 9. DATE OF DETERMINATION	AMOUNT FOR FILING	
Cauliflower	\$1,000 DATE	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation)	AMOUNT FOR CERTIFICATE	
partnership, association, etc.)	\$ 500.00	
corporation	4/2/85	
	12. DATE OF INCORPORATION	
Holland 13. NAME AND ADDRESS OF APPLICANT REPRESENTIVE(S), IF ANY, TO SERVE IN THIS APPLICATION.	18-08-1953	
a. X Section 52 of the Plant Variety Protection Act.) b. X Exhibit B, Novelty Statement d. X Exhibit D, Additional Des 15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME OF SEED? (See Section 83(a) of the Plant Variety Protection Act.) Yes (If "Yes," answer items	scription of the Variety	
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE 17. IF "YES" TO ITEM 16, WHICH	CH CLASSES OF PRODUCTION	
Yes No Foundation	Registered Certified	
18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNT	- Van //5 "Van " airea anna	
The Netherlands	Yes (If "Yes," give names of countries and dates)	
	□ No	
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES?	Yes (If "Yes," give names	
	of countries and dates)	
	X No	
	th the application and will be re-	
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with plenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provariety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and results.	ovisions of Section 42 of the Plant	
The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provariety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and resu	ovisions of Section 42 of the Plant	
The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provariety Protection Act.	ovisions of Section 42 of the Plant	
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INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$1000 fee (\$500 filing fee and \$500 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- If "Yes" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

RIJK ZWAAN zaadteelt & zaadhandel by

Re: Cauliflower (Nr. 625 RZ) TRITON Ays 4/2/65

EXHIBIT A

Origin and Breeding History of the variety:

- TRITON'

 1. Nr. 625 RZ originated from a hand crossing in 1964 between Flora Blanca and own white flowering breeding material.
- 2. Pure line selections were made on plant-type, maturity, uniformity and quality for 9 generations on trial fields in the Netherlands and Western Germany.

The genetic make-up of the variety was stabelized in the fifth generation. After that, production tests have been carried out under mass and line selection.

Nr. 625 RZ appeared to be stable and uniform during the last 4 generations, both in our trials and official tests of N.A.K.G.

Within the limits of a crosspolinating cultivar <u>no</u> variants have been found.

He: Cendiflower Wr. 2 625 62 re billion : a

ATTHERNA

Urigin and Ureeding History of the veriety:

 Mi. 625 B. originated from a hand expessing in 1964 between Flore Wence and own White Flowering brostling material.

 Pure line selections were made an plant-type, maturity.
 Uniformity and quality for 9 generations on trial fields in the Natherlands and lestern bermony.

The gonetic make-up of the variety was stabelized in the fifth ceneration. Ofter that, production tests have been carried out wo for mass and line rejection.

Az. 627 L. appeared to be stable and uniform during the last d generations, both in our trials and official tests of N.A.L.

within the limits of a crosspopinating cultiver no variants have been found.s

Volgblad No

Re: Cauliflower(Nr. 625 RZ> TRITON' 145 4/2/85



EXHIBIT B

Novelty Statement.

The novelty is based upon unique combination of:

- Upright growth habit
- Genetic white blooming

with strong vigour, complete curd covering, dark blueish green leaf colour of own breeding material. 'TRITON'

Nr. 625 RZ is most similar to Celesta however Nr. 625 RZ is later maturing has a somewhat more erect growing habit less pinking and less suceptible to riciness.

he: Cauliflower Wr. 675 K

a TIGIHXI

Sovelty Statement.

The novelty is breed upon unique combination of:

Upright growth habit Cenetic white blooming

with strong vignuz, complete curd covering, tark blueish green leaf colour of own breeding material.

New 22 12 is restantian to Celesta however 2. 62 K is lates metaring has a somewhat mover arect growing habit! less pinking and less succeptible to riciness.

S Japaneur Lestina Wood

. B. U. O. 6

Volgblad No dd Additional information we got from our trialfield sown in June 1984 from N.A.K.G. and R.I.V.R.O.

8400044_ EXHIBIT B

CAULIFLOWER CTYPE 625 RZ> TRITON of 4/2/85

3. Maturi	ty
-----------	----

5 days after Celesta

4. Plant height

5 cm shorter than Celesta

5. Leaves:

number

4 more than Celesta

length

5 cm shorter than Celesta

width

3 cm wider than Celesta

color

3 = dark green (Lecerf group) (Celesta gray green)

solidity

thicker, more solid than Celesta

6. Curd

smooth

(Celesta - knobby)

color

1 bright-white

shape

2 semi-dome, rounder than Celesta

texture

smooth

(Celesta -

slightly grainy)

8. Riceyness

Seed

2 resistant

somewhat larger than Celesta

(Celesta - slightly suscept.)

dditional information we got from our trialfield come own in June 1984 from M.A.K.L. and L.I.V.R.D.

(1) (1) (1) (1) (1) (1) (1) (1)

CAULTER CEREE SEE ME

days after Celesta

5 cm shorter then Lelesta

Totals and total

You shorter then Calesta

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thic are more bolished bloom electe

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FORM GR-470-30 (7-1-74)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION

HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY

CAULIF (Brassica olera	LOWER cea var, botrytis)				
NAME OF APPLICANT(S)	VARIETY NAME OR TEMPORARY DESIGNATION				
Rijk Zwaan Zaadteelt en Zaadhandel B.V					
ADDRESS (Street and No., or F.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY				
P.O. Box 40 - 2678 ZG De Lier, Hollan	- EG - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
Place the appropriate number that describes the varietal character Place a zero in first box (e.s. 0 8 9 or 0 9) when number is	of this variety in the boxes below.				
1. REGION OF ADAPTATION: (Where best adapted in the U.S.A.)	NO SECTION OF THE SEC				
6 = MOST REGIONS 2 = NORTHCENTRAL 3	= NORTHEAST 4 = SOUTHEAST 5 = SOUTHWEST				
2. SEASON: (Main crop)					
1 = LATE FALL - EARLY WINTER 2 = LATE WINTER - EARLY SPRING 3 = LATE SPRING - EARLY SUMMER 4 = LATE SUMMER - EARLY FALL					
3. MATURITY: (Days to 50% harvest)	ALABAM TO THE REST OF THE STATE				
0 6 4 FROM TRANSPLANTS	1 D NO. DAYS HARVESTING PERIOD				
0 9 9 FROM DIRECT SEEDING					
4. PLANT HEIGHT: (At harvest)					
2 1 CM. FROM SOIL LINE TO TOP OF CURD					
0 4 CM. TALLER THAN	1 = EARLY ERFURT 2 = SUPER SNOWBALL A 3 = SNOWBALL Y				
	4 = VEITCH AUTUMN GIANT				
O O CM. SHORTER THAN	5) 5 = OTHER (Specify) Celesta				
5. LEAVES:					
2 2 TOTAL NUMBER	7 4 CM. AVERAGE LENGTH AT MID-POINT OF PLANT (Including Petiole)				
	3 3 CM. AVERAGE WIDTH AT MID-POINT OF PLANT				
2 1 = STRAIGHT MARGINS 2 = WAVY MARGINS	1 = THIN VEINS 2 = THICK VEINS				
1 = MOSTLY SESSILE 2 = MOSTLY PETIOLATE 3 = EQUALLY SESSILE AND PETIOLATE	The same of the sa				
3 COLOR: 1 = LIGHT GREEN 2 = MEDIUM GREEN (Snowball No. 10) 3 = DARK GREEN 4 = BLUSH GREEN	1 = UPRIGHT, EXPOSE CURD 2 = INCURVED, PARTIALLY COVER CURD				
(Lecerf Group) (November)	3 = COMPETELY COVER CURD (Self blanching)				
6. CURD:	1 3 CM. DEPTH				

6. CU	RD:					8400044		
1	1 = TIGHT 2 =	LOOSE	2	SHAPE:	1 = FLAT 3 = DOME	2 = SEMI-DOME		
1	1 = SMOOTH 2 =	KNOBBY						
1	1 = BRIGHT V COLOR: 3 = PURPLE-C	VHITE 2 = CREAMY, DULL WE	HITE 1	1 = NO LEA	AVES IN CURD	2 = LEAVES IN CURD		
7. DISE	EASE RESISTANCE: (0 =	Not Tested; 1 = Susc _ tible, 2 = Resis	stant. Spec	ify race if kn	own)	SUPPLY STATE		
0	BLACK SPOT		0	CLUBROO	т			
0	рнуторнтнова вос	T ROT	0	0 WHITE BLISTER				
0	BLACK ROT		0	воттом в	гот			
0	CERCOSPORELLA LEA	AF SPOT	0	DOWNY M	ILDEW			
0	POWDERY MILDEW		0	NEBTICULUM WILT				
0	BLACK LEG		0	CAULIFLO	OWER MOSAIC	gajeaps a		
0	RING SPOT		0	TURNIP Y	ELLOW MOSAIC			
0	YELLOWS		0	WIRE STE	M FIRE WAY			
0	OTHER (Specify)							
8. OTH	ER RESISTANCE: (0 = N	ot Tested, 1 = Susceptible, 2 = Resista	int)					
2	"BUTTONING"		2	"BLINDNE	ess"			
2	"RICEYNESS"		2	"WHIPTAI	L"			
0	INSECT (Specify)							
9. INDI	CATE A VARIETY THAT	MOST CLOSELY RESEMBLES THA	AT SUBMIT	TED:				
	CHARACTER	VARIETY		CH	HARACTER	VARIETY		
MATUR	RITY	Celesta	PLANT COLOR			Celesta		
ADAPT		11	CURD SIZE			H Comments of the Comments of		
PLANT HABIT			DSHAPE		· ·			
PLANT	SIZE	"	CURD COLOR		n e			
REFER! Nieuwl		pe – World Crop Series, Leonard	Hill.					
Re:	question 2:	actually from late date from 10 April	spring sowing	g until	late fal	14(00644		

Re: question 9: - genetic pure white flowering - erect foliage

- providing complete curd cover.



EXHIBIT D Data Indicative of Novelty

Cauliflower Nr. 625 RZ Application No.

"TRITON"

Cauliflower $\frac{Nr. 625}{625}$ RZ most closely resembles Celesta, but matures about $\frac{1}{2}$ days later.

RYS SEE EXHIBIT B

1 - 4 2 1 - C

J TIMIHAR

auliflower Mr. 625 RZ 2 Applipation No

auliflower (r. 65- w. most closely resembles Celesta, but

matures about 2 days later.

lapinson riosampliodi

M.U.Z.